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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			SPITTLE, MATTHEW D	
		ART UNIT	PAPER NUMBER	
		2111		

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/814,106	JOLLY ET AL.
	Examiner Matthew D. Spittle	Art Unit 2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 14 September 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-24, 26 and 27 is/are rejected.
- 7) Claim(s) 25 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1 – 27 have been examined.

Claim Rejections - 35 USC § 102

5 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

10 (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 5, 18 – 21, 26, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Takii.

Regarding claim 1, Takii describes a circuit comprising:

15 A receiver (Figure 1, item 28) including an input node to receive a transfer signal (interpreted as CLOCK which comes into the input node of item 28 in Figure 1), and an output node to pass only the transfer signal from the input node to the output node (where the output node is interpreted as the output of Figure 1, item 28);

20 A signal detector connected to the receiver (Figure 1, item 44) to generate an internal signal (Figure 1, item MISSING CLOCK DETECT) based on the transfer signal, wherein the signal detector is configured to hold the internal signal at a first signal level when the transfer signal repeatedly switches between the first signal level and a second signal level; and wherein the signal detector is configured to hold the internal signal at a second signal level when the transfer signal stops switching (Figure 2, items B, E).

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Regarding claim 2, Takii describes wherein signal detector includes a detect circuit to detect for changes in voltage levels represented by the transfer signal (Examiner interprets the timer (Figure 1, item 44) as containing a detect circuit since it is responsive to changes in voltages as shown in Figure 2).

30

Regarding claim 3, Takii describes wherein signal detector further includes a switching circuit to switch the internal signal between the first and second signal levels (Examiner interprets the timer (Figure 1, item 44) as containing a switching circuit since it switches the signal levels as shown in Figure 2 (item MISSING CLOCK DETECT)).

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Regarding claim 4, Takii describes wherein signal detector further includes a holding circuit to hold the internal signal at one of the first and second signals (Examiner interprets the timer (Figure 1, item 44) as containing a holding circuit since it is capable of holding the signal at a high level as shown in Figure 2 (item MISSING CLOCK DETECT)).

40

Regarding claim 5, Takii describes an integrated circuit comprising:

A plurality of terminals (Examiner notes that electronic devices such as logical gates, flip-flops, timers, etc inherently have I/O terminals to permit connection to other devices. Therefore, the output of AND gate (Figure 1, item 24) could have a terminal, as well as the input to flip flop (Figure 1, item 36).
45

A number of transmitters connected to a first group of terminals of the plurality of terminals to transmit signals to the first group of terminals (Examiner notes that since AND gate (Figure 1, item 24) transmits a signal from its output, it could be interpreted as 50 a transmitter. Similarly, NOT gate (Figure 1, item 28) could also be considered a transmitter since it also transmits a signal from its output).

A number of receivers (Figure 1, items 18, 14, 44) connected to a second group of terminals (Examiner interprets TIMERS (Figure 1, items 44, 14) as containing input terminals since they are electronic devices.) of the plurality of terminals to receive 55 signals from the second group of terminals;

A signal detector (Figure 1, item 44) connected to at least one of the receivers to control an internal signal (Figure 1, item MISSING CLOCK DETECT) based on a transfer signal (interpreted as CLOCK which comes into and out of item 28 in Figure 1) received from a selected terminal of the second group of terminals (the CLOCK signal is 60 received at the input terminal of item 44) by one of the receivers (Figure 1, item 44), wherein the signal detector is configured to switch the internal signal from a first signal level to a second signal level when the transfer signal repeatedly switches between the first and second signal levels, and wherein the signal detector is configured to switch the internal signal from the second signal level back to the first signal level when the 65 transfer signal stops switching (Figure 2, items B, E).

Regarding claim 18, Takii describes a method comprising:

Receiving a transfer signal (interpreted as CLOCK which comes into the input node of item 28 in Figure 1) at an input node of a receiver and passing only the transfer signal from the input node to an output node of the receiver (where the output node is interpreted as the output of Figure 1, item 28);

Monitoring the transfer signal (Examiner interprets monitoring to mean "detecting and responding to changes," since TIMER (44) responds to changes in the transfer signal, Examiner finds it to meet this limitation.)

75 Holding an internal signal at a first signal level when the transfer signal stays at one of the first signal level and a second signal level;

Holding the internal signal at a second signal level when the transfer signal repeatedly switches between the first and second signal levels;

Switching the internal signal from the second signal level to the first signal level
80 when the transfer signal stops switching (Figure 2, items B, E).

Regarding claim 19, Takii describes holding the internal signal at the first signal level after the transfer signal stops switching (Figure 2, items B, E).

85 Regarding claim 20, Takii describes wherein monitoring includes detecting for changes in signal levels of the transfer signal (Examiner interprets TIMER (44) to meet this limitation since it clearly is responsive to changes in signal levels as shown in Figure 2, items B, E).

90 Regarding claim 21, Takii implicitly describes wherein one of the first signal level and the second signal level represents one of a voltage level and ground (Examiner notes that since Takii describes his system as one relating to the digital arts (column 1, lines 22 – 26), it refers to digital signals which are well known to consist of logical 1's and 0's, or, electrically speaking, a voltage level and ground).

95 Regarding claim 26, Takii describes wherein holding the internal signal at the first signal level occurs when the transfer signal stays at one of the first and second signal levels for a time interval equal to at least one cycle of the transfer signal (Figure 2, items B, E).

100 Regarding claim 27, Takii describes wherein holding the internal signal at the second signal level occurs when the transfer signal repeatedly switches between the first and second signal levels such that the transfer signal has at least two consecutive cycles (Figure 2, items B, E).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

110 (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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115

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 120
1. Determining the scope and contents of the prior art.
 2. Ascertaining the differences between the prior art and the claims at issue.
 3. Resolving the level of ordinary skill in the pertinent art.
 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

125 Claims 6 – 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takii in view of Janus et al.

With regard to claim 6, Takii fails to teach the transmitters and receivers configured to transfer data via the terminals according to peripheral component interconnect (PCI) express standard.

130 Janus et al. teach using the peripheral component interconnect express standard (paragraph 19).

It would have been obvious to one of ordinary skill in this art at the time of invention by applicant to incorporate the PCI express standard as taught by Janus et al. into the invention of Takii for the purpose of transmitting and receiving data on a bus.

135 This would have been obvious since Janus et al. teach that the PCI express architecture has the advantages of low pin count, and high speed, serial device-to-device interconnect.

With regard to claim 7, Takii fails to teach the transmitters and receivers
140 configured to transfer data via the terminals according to serial digital video output
(SDVO) standard.

Janus et al. teach using the serial digital video output standard (paragraph 20).

It would have been obvious to one of ordinary skill in this art at the time of
invention by applicant to incorporate the SDVO standard as taught by Janus et al. into
145 the invention of Takii for the purpose of connecting a display device. This would have
been obvious since Janus et al. teach that SDVO devices can generate digital display
signals to drive a display monitor (paragraph 23).

With regard to claim 8, Takii fails to teach the transmitters and the receivers
150 configured to transfer data via the terminals according both a peripheral component
interconnect (PCI) express standard and a serial digital video output (SDVO) standard.

Janus et al. teach using both a PCI express standard and SDVO standard
(paragraphs 19, 20).

It would have been obvious to one of ordinary skill in this art at the time of
155 invention by applicant to incorporate both the PCI express and SDVO standards for the
purposes as described above. Additionally, this would have been obvious since Janus
et al. teach that SDVO and PCI express signals are physically and electrically
compatible (paragraph 28).

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takii in view of Oh.

Regarding claim 9, Takii fails to teach a transmitting circuit including:

- 165 An input node to receive a send signal having the first and second signal levels;
An output node to transfer the transfer signal to the selected terminal of the second group of terminals, wherein the transmitting circuit is configured to hold the transfer signal at one of the first and second signal levels when the send signal has the first signal level, and wherein the transmitting circuit repeatedly switches the transfer
170 signal between the first and second signal levels when the send signal has the second signal level.

Oh teaches a transmitting circuit including:

- 175 An input node (Figure 3, item 22) to receive a send signal (Figure 3, item STP_HCLK) having the first and second signal levels (Figure 4, item STP_HCLK);
An output node (interpreted as the output of Figure 3, item 22) to transfer the transfer signal (Figure 3, item Host Bus Clock) to the selected terminal of the second group of terminals, wherein the transmitting circuit (Figure 3, item 220) is configured to hold the transfer signal at one of the first and second signal levels when the send signal has the first signal level; and wherein the transmitting circuit repeatedly switches the
180 transfer signal between the first and second signal levels when the send signal (Figure 4, item STP_HCLK) has the second signal level (Figure 4, item Host Bus Clock).

Therefore, it would have been obvious to one of ordinary skill in this art at the time of invention by applicant to combine the clock detecting means of Takii with the bus system of Oh for the purpose of allowing both clock and data to share the same signal line in the system of Oh. This would make it possible to reduce the size of, and consequently the cost, of the system of Oh.

* * *

190 Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takii in view of Schoenborn.

Regarding claim 10, Takii teaches a system comprising:

A plurality of connectors, each of the connectors including a number of pins
(Examiner notes that electronic devices such as logical gates, flip-flops, timers, etc
195 inherently have connectors with pins to permit connection to other devices. Therefore,
the AND gate (Figure 1, item 24) could have a connector with pins, as well as the flip
flop (Figure 1, item 36);

A chipset including a chipset interface connected to at least one of the
connectors, the chipset interface including:

200 A plurality of terminals connected to at least one of the connectors ((Examiner
notes that electronic devices such as logical gates, flip-flops, timers, etc inherently have
I/O terminals to permit connection to other devices. Therefore, the output of AND gate

(Figure 1, item 24) could have a terminal, as well as the input to flip flop (Figure 1, item 36).

205 A plurality of transmitters connected to the terminals (Examiner notes that since AND gate (Figure 1, item 24) transmits a signal from its output, it could be interpreted as a transmitter. Similarly, NOT gate (Figure 1, item 28) could also be considered a transmitter since it also transmits a signal from its output).

A plurality of receivers connected to the terminals (Examiner interprets TIMERS 210 (Figure 1, items 44, 14) as containing input terminals since they are electronic devices.)

A signal detector (Figure 1, item 44) connected to at least one of the receivers to hold an internal signal (Figure 1, item MISSING CLOCK DETECT) at a first signal level based on a presence of a repeated switching of a transfer signal (interpreted as CLOCK which comes into and out of item 28 in Figure 1) among the input signals, and to hold 215 the internal signal at a second signal level based on an absence of the repeated switching of the transfer signal (Figure 2, items B, E).

Takii fails to teach using differential signals in the transmitters and receivers.

Schoenborn teach using differential signals on a bus for the purpose of reducing clock skew, reducing electromagnetic interference, ensuring signal integrity, and lower 220 power consumption (column 6, lines 23 – 42).

Therefore, it would have been obvious to one of ordinary skill in this art at the time of invention by applicant to incorporate differential signals as taught by Schoenborn in the system of Takii for the purpose of reducing clock skew, reducing electromagnetic

interference, ensuring signal integrity, and lower power consumption. This would have
225 been obvious in order to make the system more reliable and reduce its operating costs.

* * *

Claims 11 – 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over
230 Takii in view of Janus et al.

With regard to claim 11, Takii fails to teach the transmitters and receivers configured to transfer data via the terminals according to peripheral component interconnect (PCI) express standard.

Janus et al. teach using the peripheral component interconnect express standard
235 (paragraph 19).

It would have been obvious to one of ordinary skill in this art at the time of invention by applicant to incorporate the PCI express standard as taught by Janus et al. into the invention of Takii for the purpose of transmitting and receiving data on a bus.

This would have been obvious since Janus et al. teach that the PCI express
240 architecture has the advantages of low pin count, and high speed, serial device-to-device interconnect.

With regard to claim 12, Takii fails to teach the transmitters and receivers configured to transfer data via the terminals according to serial digital video output
245 (SDVO) standard.

Janus et al. teach using the serial digital video output standard (paragraph 20).

It would have been obvious to one of ordinary skill in this art at the time of invention by applicant to incorporate the SVDO standard as taught by Janus et al. into the invention of Takii for the purpose of connecting a display device. This would have 250 been obvious since Janus et al. teach that SVDO devices can generate digital display signals to drive a display monitor (paragraph 23).

With regard to claim 13, Takii fails to teach wherein the interface of the chipset is configured to drive a digital display monitor.

255 Examiner takes official notice that it would be obvious to one of ordinary skill in this art at the time of invention by applicant to incorporate a digital display monitor in the system of Takii for the purpose of displaying relevant status information, debugging information, etc. This is evidenced by Naoe (column 5, line 61 – column 6, line 10).

260 With regard to claim 14, Takii fails to teach a card having a number of pins connected to one of the connectors.

Examiner takes official notice that it would be obvious to one of ordinary skill in this art at the time of invention by applicant to implement part or all of the circuit of Takii on a card, also known as a printed circuit board, printed wire board, or other electrical 265 equivalent that would resemble a card-like shape for the purpose of providing a means of mounting individual electrical components and a means of transferring signals between them.

* * *

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Claims 15 – 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takii in view of Oh.

Regarding claim 15, Takii fails to teach a transmitting circuit including:

275 An input node to receive a send signal having the first and second signal levels;
An output node to transfer the transfer signal to the selected terminal of the second group of terminals, wherein the transmitting circuit is configured to hold the transfer signal at one of the first and second signal levels when the send signal has the first signal level, and wherein the transmitting circuit repeatedly switches the transfer signal between the first and second signal levels when the send signal has the second signal level.

280

Oh teaches a transmitting circuit including:

An input node (Figure 3, item 22) to receive a send signal (Figure 3, item STP_HCLK) having the first and second signal levels (Figure 4, item STP_HCLK);
An output node (interpreted as the output of Figure 3, item 22) to transfer the transfer signal (Figure 3, item Host Bus Clock) to the selected terminal of the second group of terminals, wherein the transmitting circuit (Figure 3, item 220) is configured to hold the transfer signal at one of the first and second signal levels when the send signal has the first signal level, and wherein the transmitting circuit repeatedly switches the

transfer signal between the first and second signal levels when the send signal (Figure 290 4, item STP_HCLK) has the second signal level (Figure 4, item Host Bus Clock).

Therefore, it would have been obvious to one of ordinary skill in this art at the time of invention by applicant to combine the clock detecting means of Takii with the bus system of Oh for the purpose of allowing both clock and data to share the same signal line in the system of Oh. This would make it possible to reduce the size of, and 295 consequently the cost, of the system of Oh.

With regard to claim 16, Takii fails to teach a motherboard in which the connectors and the chipset are located.

300 Examiner takes official notice that it would be obvious to one of ordinary skill in this art at the time of invention by applicant to implement the circuit as taught by Takii on a motherboard for the purpose of providing a means of mounting individual electrical components and a means of transferring signals between them.

305 Regarding claim 17, Takii teaches the additional limitation of a processor connected to one of the connectors (Figure 1, item 44; Examiner interprets TIMER (44) as a processor, since it receives an input and provides a processed output (MISSING CLOCK DETECT)).

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takii in view of Oh.

Regarding claim 22, Takii fails to teach wherein the transfer signal is generated 315 based on a send signal, wherein each of send signal and the internal signal has a frequency lower than the frequency of the transfer signal.

Oh teaches wherein the transfer signal (Figure 3, item Host Bus Clock) is generated based on a send signal (Figure 3, item STP_HCLK), wherein each of send signal and the internal signal has a frequency lower than the frequency of the transfer 320 signal (Examiner notes that as shown in Figure 4, the send signal (STP_HCLK) clearly has a frequency lower than the frequency of the transfer signal (Host Bus Clock). Furthermore, Examiner notes that in Figure 2 of Takii, the internal signal (E) clearly has a frequency lower than the frequency of the transfer signal (B)).

Therefore, it would have been obvious to one of ordinary skill in this art at the 325 time of invention by applicant to combine the clock detecting means of Takii with the bus system of Oh for the purpose of allowing both clock and data to share the same signal line in the system of Oh. This would make it possible to reduce the size of, and consequently the cost, of the system of Oh.

Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takii in view of Oh.

Regarding claim 23, Takii teaches a method comprising:

335 Monitoring the transfer signal (Examiner interprets monitoring to mean "detecting and responding to changes," since TIMER (44) responds to changes in the transfer signal, Examiner finds it to meet this limitation.)

Holding an internal signal at a first signal level when the transfer signal stays at one of the first signal level and a second signal level;

340 Holding the internal signal at a second signal level when the transfer signal repeatedly switches between the first and second signal levels;

Switching the internal signal from the second signal level to the first signal level when the transfer signal stops switching (Figure 2, items B, E).

Takii fails to teach wherein the transfer signal is generated based on a send 345 signal, wherein each of send signal and the internal signal has a frequency lower than the frequency of the transfer signal, and wherein the transfer signal repeatedly switches between the first and second signal levels when the send signal has the first signal level.

Oh teaches wherein the transfer signal (Figure 3, item Host Bus Clock) is based 350 on a send signal (Figure 3, item STP_HCLK), wherein each of send signal and the internal signal has a frequency lower than the frequency of the transfer signal (Examiner notes that as shown in Figure 4, the send signal (STP_HCLK) clearly has a frequency lower than the frequency of the transfer signal (Host Bus Clock). Furthermore,

Examiner notes that in Figure 2 of Takii, the internal signal (E) clearly has a frequency
355 lower than the frequency of the transfer signal (B)), and wherein the transfer signal
repeatedly switches between the first and second signal levels when the send signal
has the first signal level (Figure 4, item Host Bus Clock).

Therefore, it would have been obvious to one of ordinary skill in this art at the
time of invention by applicant to combine the clock detecting means of Takii with the
360 bus system of Oh for the purpose of allowing both clock and data to share the same
signal line in the system of Oh. This would make it possible to reduce the size of, and
consequently the cost, of the system of Oh.

Regarding claim 24, Oh teaches the additional limitation wherein the transfer
365 signal stops switching when the send signal level has the second signal level (Figure 4,
item Host Bus Clock).

Allowable Subject Matter

Claim 25 is objected to as being dependent upon a rejected base claim, but
370 would be allowable if rewritten in independent form including all of the limitations of the
base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject
matter: The prior art of record neither teaches nor suggests all of the claimed subject
matter of claim 25 including "wherein send signal and the internal signal have the same
375 frequency."

Response to Arguments

Applicant's arguments filed 9/14/2006 have been fully considered but they are not persuasive.

380 Regarding Applicant's argument that the behavior of the internal signal 2(E) is inconsistent with regard to the transfer signal 2(A), and with regard to the claimed invention, Examiner agrees. Examiner has revised the rejection of claims 1 – 24, 26 and 27 to now rely on item 2(B) as the transfer signal. Examiner notes that the internal signal 2(E) is consistent in behavior with respect to transfer signal 2(B), and with
385 respect to the pertinent claims.

 Regarding Applicant's argument that there is no reason to combine the references, Examiner notes that motivation has been provided for each 35 USC 103 rejection. Specifically, motivation has been cited for the reasons of improving performance, reducing cost, improving reliability, and providing visualization means for
390 the system.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

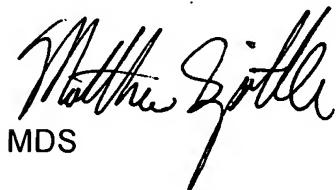
395 A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

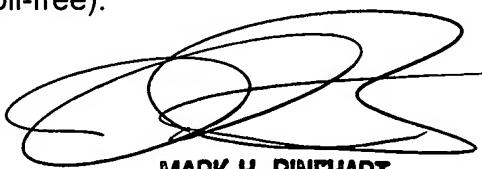
mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any 400 extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the 405 examiner should be directed to Matthew D. Spittle whose telephone number is (571) 272-2467. The examiner can normally be reached on Monday - Friday, 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571-272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

410 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should 415 you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


MDS


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